

# Diato



OXYCHLORIDE CEMENT COMPOSITION  
FLOORING FOR INDUSTRIAL PLANTS,  
INSTITUTIONS AND COMMERCIAL FIRMS

# Diato

Since 1920 Diato Company has maintained a high degree of excellence in the installation of oxychloride composition flooring in all its phases. It is accepted by the most discriminating users as the standard for quality in its field.

## DURABILITY

All types have high transverse and compressive strength and are resistant to indentation, expansion and contraction stresses, dusting and scratching. Floors improve with age, and records of 25 to 30 years service with the floor in perfect condition are not uncommon. There is high resistance to oils, greases and solvents.

## WATERPROOFING

Oxychloride floors will not withstand constant flooding or hydrostatic pressure, but they may be subjected to frequent washing and temporary flooding (up to 48 hours) without harm. Water damage during fires is thus localized.

## WEIGHT AND THICKNESS

Floors weigh about 3½ lbs. per square foot at ½ inch thickness. Old floors can be leveled without raising the height excessively or imposing undue stress on sub-floor or structure.

## CONVENIENCE OF INSTALLATION

Oxychloride floors may be installed over any sound sub-floor such as concrete, wood, or steel. No damp curing is required and floors may be subjected to normal traffic within 24 hours. The cement is set cold, avoiding smells and smoke.

## RESILIENCE

Floors absorb impact vibration of machinery and traffic. They are easy to stand and walk upon, an important factor especially where women are employed.

## MAINTENANCE AND SANITATION

Closeness of texture and low porosity make maintenance especially economical. Mopping with neutral soap and waxing or oiling is usually all that is required. Floors are odorless, even under extreme temperatures and poor circulation, help control vermin and rodents, and discourage the growth of bacteria and fungi.

## ECONOMY

Diato floors are not the least or the most expensive, but when unusually long life and low maintenance costs are considered, they afford intelligent economy both as to final cost and satisfaction in use.

## APPEARANCE

There is a wide choice of color, texture, and surface design. Solid colors, variegated colors, scored and tile designs, travertine finishes, and adaptation to odd angles and irregular shapes are simply achieved. Actual samples of typical colors are available.

## FIREPROOFING

Oxychloride flooring is non-combustible, monolithic and tight. It thus reduces leakage of smoke, fire, gas and water to other areas. Use of such floors has resulted in reduction of fire insurance rates, especially where the old floor had become oil or grease soaked.

## flooring types

### B GENERAL PURPOSE

Incorporates fine aggregates to resist heavy foot traffic, yet retain resilience. Use for medium and light duty conditions.

\*Type (A) for residential use only

### C HEAVY DUTY

Use of coarser, harder aggregate results in a hardness superior to many marbles. Use for conditions of heavy traffic and severe loads.

### D NON-SLIP

Incorporates an abrasive aggregate to make this or any of the other types non-slip. Use for conditions where wetness, oil or grease create hazards.

### E TERRAZZO

Use of marble chips, cork, or other aggregates results in a floor both durable and decorative. Dividing strips may be used to form designs. Use for commercial service where appearance is a primary factor.

### F NON-SPARKING

A spark-proof, conductive flooring designed for use where static electricity or sparking is a hazard.

### G INDUSTRIAL GRANOLITHIC

An extremely tough floor containing granite aggregate for the most severe service conditions. Pea gravel aggregate with the surface lightly ground may be used for improved appearance.

### H BASE COAT OR UNDERLayment

A smooth, level base for all types of flexible floor coverings. Improves resiliency, adds to life of floor covering by reducing indentation and breakage.

### I ASPHALT MASTIC

A remarkably tough yet soft mastic flooring for heavy industrial use. Recommended for warehouse trucking and many outdoor uses. Goes on over old splintered and broken wood and concrete floors.

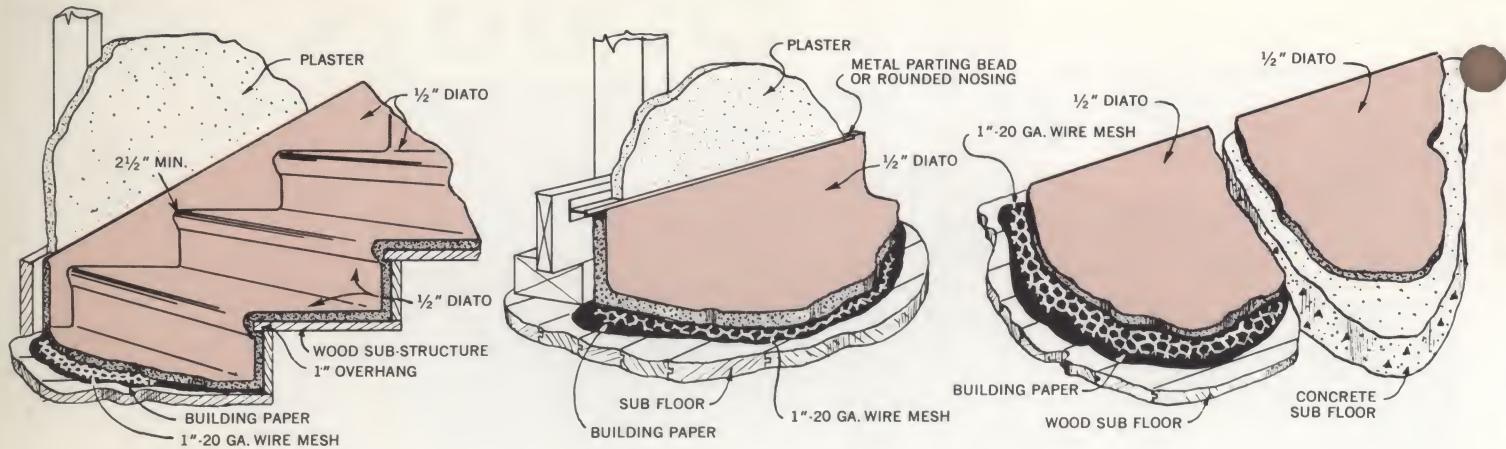
All above types correspond to O.C.A. (Oxychloride Cement Association) specifications for the same type floor.

# Diato

floors meet  
all needs  
of industry



## CONSTRUCTION DETAILS



## SPECIFICATIONS

### OXYCHLORIDE CEMENT

Materials are supplied to the job in two parts, a gauging solution of Magnesium Chloride, and a dry mix of caustic calcined Magnesium Oxide, fillers, and aggregates. These combine to form Magnesium Oxychloride Cement, a dense, stone-like material.

### APPLICATION

DIATO floors are laid as follows:

**OVER WOOD.** One layer of 15# building paper is laid over wood floor. Then 1"-20 gauge wire mesh is laid on and nailed on 6" centers for anchorage and reinforcement. DIATO is then applied to a thickness of  $\frac{1}{2}$  inch and leveled to a smooth even surface. After final set, the floor is cleaned, lightly sanded by hand and filled with a proper sealer.

### OVER NEW CONCRETE

New slab is finished to a level surface, taking into account the thickness of the DIATO, and roughened with a broom prior to final set. DIATO is then applied.

### OVER OLD CONCRETE

Old slab is roughened with a sharp tool, or, if desired, Magnabond — a synthetic adhesive, or a neat mixture of DIATO applied as a slurry, can be used for bonding. After such preparation finished DIATO is applied.

### STANDARDS OF MANUFACTURE AND APPLICATION

Our materials and methods of preparation and application conform to the published standards of O.C.A. (Oxychloride Cement Association) of Washington, D.C.

We are prepared to supply evidence of certification from O.C.A. Our products conform to Public Health Service requirements.

### ASPHALT MASTIC

DIATO type (i) mastic is an emulsified asphalt designed for resilience with extreme resistance to abrasion and hard wear. It will not dust or crumble, and is so tough that cuts from truck wheels are healed by subsequent trucking. It is quiet, vermin-proof, and fire-resistant. This floor is especially recommended for warehouse trucking operations where old floors are breaking up.

## other

# Diato services

#### "DEX-O-TEX"

We install "DEX-O-TEX," a mastic composed of synthetic rubber and other ingredients to produce an unexcelled non-slip flexible floor and deck surface.

#### RESIDENTIAL AND COMMERCIAL FLOORS

Diato floors are used in many applications in residences, apartments, stores, etc., as well as in industry.

#### CUSTOM DESIGN SERVICE

We offer an expert advisory service at no extra charge. Our long experience qualifies us to aid in the solution of flooring problems involving engineering, color or architectural correctness.

Consult us on your flooring problems — there is no obligation

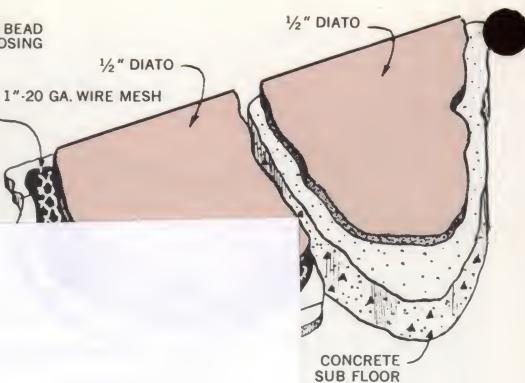
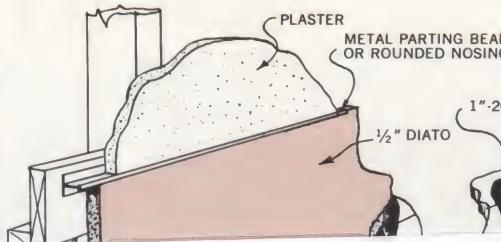
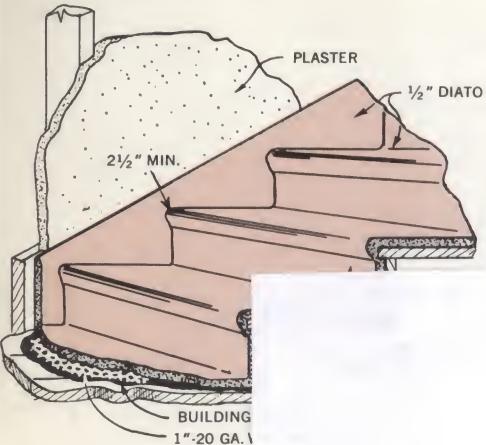
# Diato

company

2000 Hyperion Ave.  
Los Angeles 27, California  
Telephone NOrmandy 3-2163

In Los Angeles since 1920

## CONSTRUCTION DETAILS



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## SPECIFICATIONS

### OXYCHLORIDE CEMENT

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### APPLICATION

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### OVER NEW CONCRETE

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other

**Diato**

### "DEX-O-TEX"

We install "DEX-O-TEX," a synthetic rubber and other an unexcelled non-slip floor surface.

From the collection of:

Mike Jackson, FAIA

sired, Magnabond IATO applied as a preparation finished

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